

FORM PTO-1449 (Modified)			ATTY. DOCKET NO. TH1647 03 (US)	APPLICATION NUMBER			
LIST OF INFORMATION PROVIDED BY APPLICANT  (Use several sheets if necessary)			APPLICANT C. L. Edwards et al.				
			FILING DATE	GROUP ART UNIT			
REFERENCE DESIGNATION			U.S. PATENT DOCUMENTS				
Examiner Initial		Document No.	Date	Patentee	Class	Subclass	Filing Date if Appropriate
	AA	3,676,523	7/11/72	Mason	260	683.15D	
	AB	3,686,351	8/22/72	Mason	260	683.15D	
	AC	3,737,475	6/5/73	Mason	260	683.15D	
	AD	3,825,615	7/23/74	Lutz	260	683.15D	
	AE	4,020,121	4/26/77	Kister et al.	260	683.15D	
	AF	4,021,447	5/3/77	Rubin et al.	260	326.8	
	AG	3,702,886	11/14/72	Argauer et al.	423	328	
	AH	3,709,979	1/9/73	Chu	423	328	
	AI	3,832,449	8/27/74	Rubin et al.			
FOREIGN PATENT DOCUMENTS							
		Document No.	Date	Country	Class	Subclass	Translation Yes N
<i>No references</i>	AL	WO 94/05761	3/17/94	World	C11D	3/10	
	AM	1,429,143	3/24/76	Great Britain	C11D	10/02	
	AN	WO 99/42553	8/26/99	World	C11D	3/43	
	AO	0,884,298-A2	12/16/98	Europe	C07C	43/10	X
OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)							
AR	Myers, Drew, "Surfactant Science and Technology," pp. 82-85, VCH Publishers, Inc. (New York, NY, USA) 1988 (ISBN 0-89573-399-0)  <i>NO REFERENCE PRESENTED</i>						
AS	K. Shimoda, "Principles of Solution and Solubility," translation in collaboration with Paul Becher, published by Marcel Dekker, Inc. 1978, pp. 292-304  <i>NO REF</i>						
AT	Reid, V.W., G.F. Longman and E. Heinrich, "Determination of Anionic-Active Detergents by Two-Phase Titration," <u>Tensile</u> 4, 1967, pp. 292-304  <i>NO REF</i>						
EXAMINER	<i>Jean F. Wilson</i>			DATE CONSIDERED <i>4/16/2004</i>			

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<i>John</i>	BA	4,482,531	11/13/84	Kuehl	423	329	
<i>John</i>	BB	3,950,496	4/13/76	Ciric	423	328	
<i>John</i>	BC	3,972,983	8/3/76	Ciric	423	328	
<i>John</i>	BD	4,046,859	9/6/77	Plank et al.	423	328	
<i>John</i>	BE	4,247,416	1/27/81	Doherty et al.	252	428	
<i>John</i>	BF	4,086,186	4/25/78	Rubin et al.	252	430	
<i>John</i>	BG	4,046,859	9/6/77	Plank et al.	423	328	<i>already on page 1449 (3rd page)</i>
<i>John</i>	BH	4,287,166	9/1/81	Dwyer et al.	423	325	
<i>John</i>	BI	4,247,728	1/27/81	Rubin et al.	585	467	
FOREIGN PATENT DOCUMENTS							
		Document Number	Date	Country	Class	Subclass	Translation Yes No
<i>No references</i>	BL	06073045	3/15/94	Japan	C07D	273/08	X /
	BM	03261779	1/21/91	Japan	C07D	309/24	X /
	BN	JP 11-349507	12/21/99	Japan	C07C	43/11	X /
	BO	100-20-899-A1	10/25/01	Germany	C07D	493/04	X /
OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)							
	BR	B. E. Gordon, H. Reddewig and W. T. Shebs, "A Double Label Radiotracer Approach-to-Detergency Studies," Journal of American Oil Chemists' Society, Vol. 44, No. 5 (1967) pp. 289-294 <i>NO REF</i>					
	BS	W. T. Shebs and B. E. Gordon, "Improvements in Detergency Precision With Radioactive Soil," Journal of American Oil Chemists' Society, Vol. 45, No. 5 (1968) pp. 377-380					
	BT	W. T. Shebs, "Radioisotope Techniques in Detergency," Chapter 3, Detergency Theory and Technology, Marcel Dekker, Inc., New York (1987) pp. 125-191					
EXAMINER <i>Jean F. Wallen</i>			DATE CONSIDERED <i>4/16/2004</i>				

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Examiner Initial		Document No.	Date	Patentee	Class	Subclass	Filing Date If Appr prior
<i>[Signature]</i>	CA	4,495,303	1/22/85	Kuehl	502	62	
<i>[Signature]</i>	CB	4,397,827	8/9/83	Chu	423	326	
<i>[Signature]</i>	CC	4,640,829	2/3/87	Rubin	423	328	
<i>[Signature]</i>	CD	4,568,654	2/4/86	Valyocsik	502	62	
<i>[Signature]</i>	CE	4,698,217	10/6/87	Valyocsik	423	328C	
<i>[Signature]</i>	CF	4,647,442	3/3/87	Derouane et al.	423	306	
<i>[Signature]</i>	CG	4,619,818	10/28/86	Derogane et al.	423	306	
<i>[Signature]</i>	CH	4,954,325	9/4/90	Rubin et al.	423	328	
<i>[Signature]</i>	CI	5,236,575	8/17/93	Bennett et al.	208	46	
FOREIGN PATENT DOCUMENTS							
		Document No.	Date	Country	Class	Subclass	Translation Yes N
	CL						
	CM						
	CN						
	CO						
OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)							
	CR	Roger Hunter et al., "Allylation Using Allylborates," TETRAHEDRON, Vol. 50, No. 3, 1994, pp. 871-888 <i>no references presented</i>					
	CS	Birgit Bartels et al., "A Selectivity of Activated-Ketal-Reduction With Borane Dimethyl Sulfide," JOURNAL OF ORGANIC CHEMISTRY, Vol. 58, No. 24, 1993, pp. 6756-6765 <i>NO REFERENCE</i>					
	CT	T. Hosokawa et al., "Palladium (II)-Catalyzed Acetalization of Terminal Olefins Bearing Electron-Withdrawing-Substituents With Optically Active Diols," JOURNAL OF ORGANIC CHEMISTRY, Vol. 52, 1987, pp. 1958-1764 <i>NO REF</i>					
EXAMINER <i>Jean P. Mallan</i>			DATE CONSIDERED <i>4/16/2004</i>				

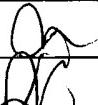
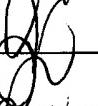
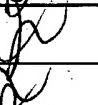
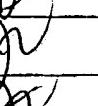
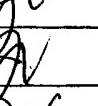
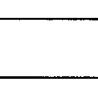
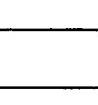
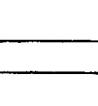
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Examiner Initial		Document Number	Date	Patentee	Class	Subclass	Filing Date If Appropriate
<i>JN</i>	DA	3,308,069	3/7/67	Wadlinger et al.	252	455	
<i>JN</i>	DB	Re. 28,341	2/18/75	Wadlinger, et al.	208	120	
<i>JN</i>	DC	3,058,805	10/16/62	Weber	23	113	
<i>JN</i>	DD	3,130,007	4/21/64	Breck	23	113	
<i>JN</i>	DE	3,996,337	12/7/76	Stabenow et al.	423	328	
<i>JN</i>	DF	4,440,871	4/3/84	Lok et al.	502	214	
<i>JN</i>	DG	5,059,567	10/22/91	Linsten et al.	502	64	
<i>JN</i>	DH	3,462,525	8/19/69	Levinsky	424	56	
<i>JN</i>	DI	3,428,654	2/18/69	Rubinfeld et al.	260	327	
<b>FOREIGN PATENT DOCUMENTS</b>							
		Document Number	Date	Country	Class	Subclass	Translation Yes N
	DL						
	DM						
	DN						
	DO						
<b>OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)</b>							
<i>JN</i>	DR	F. Wang et al., Synlett, (1998) pp. 245-245					
<i>JN</i>	DS	A. A. Volkov et al., Dokl. Chem. 283, (1985), pp. 246-248					
<i>JN</i>	DT	International Search Report of 5 July 2002					
EXAMINER		<i>Jean Flollens</i>		DATE CONSIDERED		<i>4/16/2024</i>	

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	EA	3,420,875	1/7/69	Di Salvo et al.	260	513	
	EB	3,506,580	4/14/70	Rubinfeld et al.	252	138	
	EC	3,579,537	5/18/71	Rubinfeld et al.	260	327	
	ED	3,524,864	8/18/70	Rubinfeld et al.	260	327	
	EE	5,057,627	10/15/91	Edwards	568	618	
	EF	6,087,311	7/11/00	Van Dijk	510	294	
	EG	6,083,893	7/4/00	Zint et al.	510	221	
	EH	6,159,920	12/12/00	Ridyard	510	324	
	EI	6,153,574	11/28/00	Janssen	510	224	
FOREIGN PATENT DOCUMENTS							
		Document Number	Date	Country	Class	Subclass	Translation Yes      No
	EL						
	EM						
	EN						
	EO						
OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)							
	ER	Anionic Surfactants, Volume 7, Part I, edited by Warner M. Linfield, 1976 by Marcel Dekker, Inc.					
	ES						
	ET						
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<i>JW</i>	FA	2,778,855	1/22/57	Shokal et al.	260	613	
<i>JW</i>	FB	4,503,275	3/5/85	Harris et al.	568	866	
<i>JW</i>	FC	4,317,938	3/2/82	Lutz	568	619	
<i>JW</i>	FD	4,721,816	1/26/88	Edwards	568	618	
<i>JW</i>	FE	4,721,817	1/26/88	Edwards	518	618	
<i>JW</i>	FF	2,808,442	10/1/57	Smith et al.	260	611	
<i>JW</i>	FG	5,912,408	6/15/99	Trinh et al.	8	142	
<i>JW</i>	FH	4,544,512	10/1985	Hozumi et al.	558	169	
<i>JW</i>	FI						
FOREIGN PATENT DOCUMENTS							
		Document No.	Date	Country	Class	Subclass	Translation Yes      No
	FL						
	FM						
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	FO						
OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)							
	FR						
	FS						
	FT						
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<i>Jean Florko</i>		<i>April 16, 2001</i>					

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